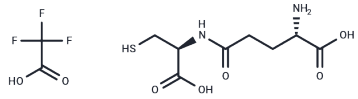
Data Sheet (Cat.No.T11357)

TargetMol
YOUR TARGET MOLECULES

Gamma-glutamylcysteine TFA

Chemical Properties



CAS No. : 283159-88-6

Formula: C10H15F3N2O7S

Molecular Weight: 364.29

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Gamma-glutamylcysteine (TFA) ((γ-glutamylcysteine (TFA)), a crucial dipeptide in glutathione (GSH) synthesis and a vital cofactor for the enzyme glutathione peroxidase (GPx), significantly modulates inflammatory responses. It enhances the level of the anti-inflammatory cytokine IL-10, diminishes the concentrations of pro-inflammatory cytokines (TNF-α, IL-6, and IL-1β), and mitigates alterations in metalloproteinase activity in oligomeric Aβ40-treated astrocytes.
Targets(IC50)	IL Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7451 mL	13.7253 mL	27.4507 mL
5 mM	0.549 mL	2.7451 mL	5.4901 mL
10 mM	0.2745 mL	1.3725 mL	2.7451 mL
50 mM	0.0549 mL	0.2745 mL	0.549 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Braidy N, et al. The Precursor to Glutathione (GSH), γ-Glutamylcysteine (GGC), Can Ameliorate Oxidative Damage and Neuroinflammation Induced by Aβ40 Oligomers in Human Astrocytes. Front Aging Neurosci. 2019 Aug 8;11:

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